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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,032	09/23/2003	Ellis A. Pinder	CM06393J	1817

7590 07/25/2007  
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EXAMINER
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TRAN, TUAN A

ART UNIT	PAPER NUMBER
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2618

MAIL DATE	DELIVERY MODE
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07/25/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

### Application No.

10/669,032

### Applicant(s)

PINDER ET AL.

### Examiner

Tuan A. Tran

### Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-9,27 and 28 is/are pending in the application.
- 4a) Of the above claim(s) 10-26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9,27 and 28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-9 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hutchison (6,725,061) in view of Kung (6,718,182).

Regarding claims 4 and 6, Hutchison discloses an interface system, comprising: a radio having a microcontroller 112, 114 with bi-directional GPIO(s) connected to an external radio interface 136 (serial interface), wherein the GPIO(s) interface being configured as an input device upon radio power-up (upon radio power-up and connection to external accessory) and wherein the radio periodically checking the external radio interface to detect the presence of an accessory; a plurality of accessories having physical configuration descriptors stored therein and each having an external radio interface; and the external radio interface automatically being configured to detect the attachment of each accessory based on the physical configuration descriptors of each of the plurality of accessories (See figs. 1, 3-4 and col. 5 line 1 to col. 6 line 51). However, Hutchison does not mention that upon accessory detection, the radio reads event mapping descriptor stored in a memory of the accessory and configures the external radio interface in response thereto. Kung teaches a radio device (See fig. 1) capable of coupling with an accessory device without any

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microcontroller within the accessory device (i.e. serial memory device) (See col. 6 lines 7-17), wherein the radio device, upon the attachment of the accessory device to its interface, reads initialization program 144 and software driver code 142 (event mapping descriptors) stored in a memory of the accessory device and configures its interface in response thereto (for operating the accessory device) (See figs. 1-2 and col. 4 line 66 to col. 5 line 38). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the teachings of Kung in modifying the system as disclosed by Hutchison for the advantage of allowing the radio device and the attached accessory device (future accessory device) to function together in their intended manner.

Claims 1, 2 and 27-28 are rejected for the same reasons as set forth in claims 4 and 6.

Regarding claims 3 and 7, Hutchison & Kung disclose as cited in claims 2 and 6. Hutchison further discloses the physical configuration descriptors includes data direction, logic sense and priority and provides logic highs and lows to the GPIO(s) (See fig. 3).

Regarding claim 5, Hutchison & Kung disclose as cited in claim 4. Hutchison further discloses the GPIO(s) comprises an extended GPIO to limit the interface system to predetermined accessories (See col. 5 lines 24-28).

Regarding claim 8, Hutchison & Kung disclose as cited in claim 6. Hutchison further discloses the radio modifies performance of an accessory from the plurality of

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accessories based on the physical descriptor of that accessory, by selectively controlling the logic of the GPIO(s) (See col. 5 lines 19-22).

Regarding claim 9, Hutchison & Kung disclose as cited in claim 6. Hutchison further discloses the radio rejects an accessory from the plurality of accessories based on the physical descriptor of the accessory (See fig. 4).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-9 and 27-28 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Tran whose telephone number is (571) 272-7858. The examiner can normally be reached on Mon-Fri, 10:00AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Tuan Tran



Matthew D. Anderson  
SPE - 2618